WETLAND RATING FORM – WESTERN WASHINGTON

Name of wetland (if known):		
Location: SEC: TWNSHP: RNG	E: (attach map with outline of wet	land to rating form)
Person(s) Rating Wetland:	Affiliation: Date	of site visit:
SUM	MARY OF RATING	
Category based on FUNCTIONS	provided by wetland	
I II IV	- -	
	Score for Water Quality Functi	ions
Category I = Score >=70 Category II = Score 51-69	Score for Hydrologic Functi	ions
Category III = Score 30-50	Score for Habitat Functi	ions
Category IV = Score < 30	TOTAL score for functi	ions
Category based on SPECIAL CH	IARACTERISTICS of wetland	
I II Does not App		
II Does not App.	39	
Final Catagory (-l	4l - ((l.º-l4))4	
Final Category (cho	ose the "highest" category from abov	ve)

Check the appropriate type and class of wetland being rated.

Wetland Type	Wetland Class
Estuarine	Depressional
Natural Heritage Wetland	Riverine
Bog	Lake-fringe
Mature Forest	Slope
Old Growth Forest	Flats
Coastal Lagoon	Freshwater Tidal
Interdunal	
None of the above	

Does the wetland being rated meet any of the criteria below?

If you answer YES to any of the questions below you will need to protect the wetland according to the regulations regarding the special characteristics found in the wetland.

Check List for Wetlands That Need Special Protection, and That Are Not Included in the Rating	YES	NO
SP1. Has the wetland been documented as a habitat for any Federally listed Threatened or Endangered plant or animal species (T/E species)?		
For the purposes of this rating system, "documented" means the wetland is on the appropriate state or federal database.		
SP2. Has the wetland been documented as habitat for any State listed Threatened or Endangered plant or animal species? For the purposes of this rating system, "documented" means the wetland is on the appropriate state database.		
SP3. Does the wetland contain individuals of Priority species listed by the WDFW for the state?		
SP4. Does the wetland have a local significance in addition to its functions? For example, the wetland has been identified in the Shoreline Master Program, the Critical Areas Ordinance, or in a local management plan as having special significance.		

To complete the next part of the data sheet you will need to determine the Hydrogeomorphic Class of the wetland being rated.

The hydrogeomorphic classification groups wetlands into those that function in similar ways. This simplifies the questions needed to answer how well the wetland functions. The Hydrogeomorphic Class of a wetland can be determined using the key below. See p. 24 for more detailed instructions on classifying wetlands.

Classification of Vegetated Wetlands for Western Washington Wetland Name: Date: 1. Are the water levels in the wetland usually controlled by tides (i.e. except during floods)? NO – go to 2 YES – the wetland class is Tidal Fringe

If yes, is the salinity of the water during periods of annual low flow below 0.5 ppt (parts per thousand)? YES – Freshwater Tidal Fringe NO – Saltwater Tidal Fringe (Estuarine)

If your wetland can be classified as a Freshwater Tidal Fringe use the forms for Riverine wetlands. If it is Saltwater Tidal Fringe it is rated as an Estuarine wetland. Wetlands that were called estuarine in the first and second editions of the rating system are called Salt Water Tidal Fringe in the Hydrogeomorphic Classification. Estuarine wetlands were categorized separately in the earlier editions, and this separation is being kept in this revision. To maintain consistency between editions, the term "Estuarine" wetland is kept. Please note, however, that the characteristics that define Category I and II estuarine wetlands have changed (see p.).

2. Is the topography within the wetland flat and precipitation is only source (>90%) of water to it. NO – go to 3 YES – The wetland class is Flats

If your wetland can be classified as a "Flats" wetland, use the form for **Depressional** wetlands.

3. Does the wetland **meet both** of the following criteria?

The vegetated part of the wetland is on the shores of a body of open water (without any vegetation on the surface) where at least 20 acres (8 ha) are permanently inundated (ponded or flooded);

___At least 30% of the open water area is deeper than 6.6 ft (2 m)?

NO – go to 4 **YES** – The wetland class is **Lake-fringe** (**Lacustrine Fringe**)

4. Does the wetland **meet all** of the following criteria?

____The wetland is on a slope (*slope can be very gradual*),

____The water flows through the wetland in one direction (unidirectional) and usually comes from seeps. It may flow subsurface, as sheetflow, or in a swale without distinct banks.

____The water leaves the wetland **without being impounded**?

NOTE: Surface water does not pond in these type of wetlands except occasionally in very small and shallow depressions or behind hummocks(depressions are usually <3ft diameter and less than 1 foot deep).

NO - go to 5 **YES** – The wetland class is **Slope**

5. Is the wetland in a valley, or stream channel, where it gets inundated by overbank flooding from that stream or river? The flooding should occur at least once every two years, on the average, to answer "yes." *The wetland can contain depressions that are filled with water when the river is not flooding.*

NO - go to 6 **YES** – The wetland class is **Riverine**

- **6**. Is the wetland in a topographic depression in which water ponds, or is saturated to the surface, at some time of the year. *This means that any outlet, if present, is higher than the interior of the wetland.*
 - NO go to 7 **YES** The wetland class is **Depressional**
- 7. Is the wetland located in a very flat area with no obvious depression and no stream or river running through it and providing water. The wetland seems to be maintained by high groundwater in the area. The wetland may be ditched, but has no obvious natural outlet.
 - NO go to 8 **YES** The wetland class is **Depressional**
- 8. Your wetland seems to be difficult to classify. For example, seeps at the base of a slope may grade into a riverine floodplain, or a small stream within a depressional wetland has a zone of flooding along its sides. Sometimes we find characteristics of several different hydrogeomorphic classes within one wetland boundary. Use the following table to identify the appropriate class to use for the rating system if you have several HGM classes present within your wetland. NOTE: Use this table only if the class that is recommended in the second column represents 10% or more of the total area of the wetland being rated. If the area of the second class is less than 10% classify the wetland using the first class.

HGM Classes Within a Delineated Wetland Boundary	Class to Use in Rating
Slope + Riverine	Riverine
Slope + Depressional	Depressional
Slope + Lake-fringe	Lake-fringe
Depressional + Riverine along stream within boundary	Depressional
Depressional + Lake-fringe	Depressional
Salt Water Tidal Fringe and any other class of freshwater	Treat as ESTUARINE under
wetland	wetlands with special
	characteristics

If you are unable still to determine which of the above criteria apply to your wetland, or you have more than 2 HGM classes within a wetland boundary, classify the wetland as **Depressional** for the rating.

D	Depressional and Flats Wetlands	Points	
	WATER QUALITY FUNCTIONS - Indicators that wetland functions to improve		
D	water quality D 1. Does the wetland have the potential to improve water quality? (see p. 38)]	
	D 1.1 Characteristics of surface water flows out of the wetland:		
_	Wetland is a depression with no surface water outlet points = 3		
\mathbf{D}	Wetland has an intermittently flowing, or highly constricted, outlet points = 2		
	Wetland has an unconstricted surface outlet points = 1		
	Wetland is flat and has no obvious outlet and/or outlet is a ditch points = 1		
	D 1.2 The soil 2 inches below the surface is clay, organic, or smells anoxic (hydrogen sulfide or rotten eggs).		
\mathbf{D}	YES points = 4		
	NO points = 0		
	D 1.3 Characteristics of persistent vegetation (emergent, shrub, and/or forest class):		
D	Wetland has persistent, ungrazed, vegetation $> 95\%$ of area points $= 5$		
	Wetland has persistent, ungrazed, vegetation $> = 1/2$ of area points $= 3$ Wetland has persistent, ungrazed vegetation $> = 1/10$ of area points $= 1$		
	Wetland has persistent, ungrazed vegetation $ > 1/10 $ of area points $ = 1 $ Wetland has persistent, ungrazed vegetation $ < 1/10 $ of area points $ = 0 $		
	D1.4 Characteristics of seasonal ponding or inundation.		
D	This is the area of the wetland that is ponded for at least 2 months, but dries out		
	sometime during the year. Do not count the area that is permanently ponded.		
	Estimate area as the average condition 5 out of 10 yrs. Area seasonally ponded is $> \frac{1}{2}$ total area of wetland points = 4		
	Area seasonally ponded is > 72 total area of wetland points = 4 Area seasonally ponded is $> 1/4$ total area of wetland points = 2		
	Area seasonally pended is $< \frac{1}{4}$ total area of wetland points = 0		
	NOTE: See text for indicators of seasonal and permanent inundation		
D	Total for D 1 Add the points in the boxes above		
D	D 2. Does the wetland have the opportunity to improve water quality? (see p. 44)		
	Answer YES if you know or believe there are pollutants in groundwater or surface		
	water coming into the wetland that would otherwise reduce water quality in streams, lakes or groundwater downgradient from the wetland? <i>Note which of the</i>		
	following conditions provide the sources of pollutants.		
	— Grazing in the wetland or within 150 ft		
	 Untreated stormwater discharges to wetland 		
	— Tilled fields or orchards within 150 ft of wetland		
	— A stream or culvert discharges into wetland that drains developed areas,		
	residential areas, farmed fields, roads, or clear-cut logging — Residential, urban areas, golf courses are within 150 ft of wetland		
	Wetland is fed by groundwater high in phosphorus or nitrogen		
	— Other		
	YES multiplier is 2 NO multiplier is 1		
D	TOTAL - Water Quality Functions Multiply the score from D1 by D2		
	Add score to table on p. 1		

D	Depressional and Flats Wetlands		Points
	HYDROLOGIC FUNCTIONS - Indicators that wetland functions to reduce the diagraph of the diagrap	uce	
	flooding and stream degradation D 3 Does the watland have the natural to reduce flooding and exercise	?	-
	D 3. Does the wetland have the <u>potential</u> to reduce flooding and erosio (see p. 46))11 .	
D	D 3.1 Characteristics of surface water flows out of the wetland		
	Wetland has no surface water outlet	points = 4	
	Wetland has an intermittently flowing, or highly constricted, outlet	points $= 2$	
	Wetland is flat and has no obvious outlet and/or outlet is a small ditch		
		points = 0	
\mathbf{D}	D 3.2 Depth of storage during wet periods		
	Estimate the height of ponding above the bottom of the outlet		
		points = 7 points = 5	
		points = 5 points = 5	
		ints = 3	
	Wetland is flat but has small depressions on the surface that trap water		
	•	points = 0	
D	D 3.3 Contribution of wetland to storage in the watershed		
	Estimate the ratio of the area of upstream basin contributing surface wa	ter to the	
	wetland to the area of the wetland itself.	•	
	The area of the basin is less than 10 times the area of wetland The area of the basin is 10 to 100 times the area of the wetland	points $= 5$	
	The area of the basin is more than 100 times the area of the wetland	points = 3 $points = 0$	
	Wetland is in the FLATS class (basin = the wetland, by definition)	points = 0 $points = 5$	
D	Total for D 3 Add the points in the bo		
D	D 4. Does the wetland have the opportunity to reduce flooding and ero	osion?	
	(see p. 49)		
	Answer YES if the wetland is in a location in the watershed where the	e flood	
	storage, or reduction in water velocity, it provides helps protect down	stream	
	property and aquatic resources from flooding or excessive and/or eros		
	Answer NO if the water coming into the wetland is controlled by a str		
	as flood gate, tide gate, flap valve, reservoir etc. OR you estimate that 90% of the water in the wetland is from groundwater.	more than	
	Note which of the following indicators of opportunity apply.		
	 Wetland is in a headwater of a river or stream that has flooding 	problems	
	 Wetland drains to a river or stream that has flooding problems 		multiplier
	Wetland has no outlet and impounds surface runoff water that it	might	indiaphot
	otherwise flow into a river or stream that has flooding problem	_	
	— Other		
	YES multiplier is 2 NO multiplier is 1		
D	TOTAL - Hydrologic Functions Multiply the score from	D 3 by D 4	
	Add score to to	-	

R	Riverine and Freshwater Tidal Fringe Wetlands	Points
	WATER QUALITY FUNCTIONS - Indicators that wetland functions to improve water quality	
R	R 1. Does the wetland have the <u>potential</u> to improve water quality? (see p. 52)	
R	R 1.1 Area of surface depressions within the riverine wetland that can trap sediments during a flooding event: Depressions cover > 3/4 area of wetland points = 8 Depressions cover > 1/2 area of wetland points = 4 Depressions present but cover < 1/2 area of wetland points = 2	
R	No depressions present points = 0 R 1.2 Characteristics of the vegetation in the wetland: Forest or shrub > 2/3 the area of the wetland points = 8 Forest or shrub > 1/3 area of the wetland points = 6 Ungrazed, emergent plants > 2/3 area of wetland points = 6 Ungrazed emergent plants > 1/3 area of wetland points = 3 Forest, shrub, and ungrazed emergent < 1/3 area of wetland points = 0	
R	Add the points in the boxes above	
R	R 2. Does the wetland have the opportunity to improve water quality? (see p. 53) Answer YES if you know or believe there are pollutants in groundwater or surface water coming into the wetland that would otherwise reduce water quality in streams, lakes or groundwater downgradient from the wetland? Note which of the following conditions provide the sources of pollutants. — Grazing in the wetland or within 150ft — Untreated stormwater discharges to wetland — Tilled fields or orchards within 150 feet of wetland — A stream or culvert discharges into wetland that drains developed areas, residential areas, farmed fields, roads, or clear-cut logging — Residential, urban areas, golf courses are within 150 ft of wetland — The river or stream linked to the wetland has a contributing basin where human activities have raised levels of sediment, toxic compounds or nutrients in the river water above standards for water quality — Other YES multiplier is 2 NO multiplier is 1	multiplier
R	TOTAL - Water Quality Functions Multiply the score from R 1 by R 2 Add score to table on p. 1	

R	Riverine and Freshwater Tidal Fringe Wetlands	Points	
	HYDROLOGIC FUNCTIONS - Indicators that wetland functions to reduce		
	flooding and stream erosion		
	R 3. Does the wetland have the <u>potential</u> to reduce flooding and erosion?		
	(see p. 54)		
R	R 3.1 Characteristics of the overbank storage the wetland provides:		
	Estimate the average width of the wetland perpendicular to the direction of the		
	flow and the width of the stream or river channel (distance between banks).		
	Calculate the ratio: (width of wetland)/(width of stream).		
	If the ratio is more than 20 points = 9		
	If the ratio is between $10 - 20$ points = 6		
	If the ratio is 5- $<$ 10 points = 4		
	If the ratio is $1-<5$ points = 2		
	If the ratio is < 1 points $= 1$		
R	R 3.2 Characteristics of vegetation that slow down water velocities during floods:		
	Treat large woody debris as "forest or shrub". Choose the points appropriate		
	for the best description.		
	Forest or shrub for $>1/3$ area OR Emergent plants $> 2/3$ area points $= 7$		
	Forest or shrub for $> 1/10$ area OR Emergent plants $> 1/3$ area points $= 4$		
	Vegetation does not meet above criteria $points = 0$		
R	Add the points in the boxes above		
R	R 4. Does the wetland have the opportunity to reduce flooding and erosion?		
	(see p. 57)		
	Answer YES if the wetland is in a location in the watershed where the flood		
	storage, or reduction in water velocity, it provides helps protect downstream		
	property and aquatic resources from flooding or excessive and/or erosive flows.		
	Note which of the following conditions apply.		
	— There are human structures and activities downstream (roads, buildings,		
	bridges, farms) that can be damaged by flooding.	1	
	— There are natural resources downstream (e.g. salmon redds) that can be	multiplier	
	damaged by flooding		
	— Other		
	(Answer NO if the major source of water to the wetland is controlled by a reservoir		
	or the wetland is tidal fringe along the sides of a dike)		
	YES multiplier is 2 NO multiplier is 1		
R	TOTAL - Hydrologic Functions Multiply the score from R 3 by R 4		
1/	Add score to table on p. 1		
	Time score to mote on p. 1		

L	Lake-fringe Wetlands		Points
	WATER QUALITY FUNCTIONS - Indicators that wetland function	ns to improve	
	water quality		
L	L 1. Does the wetland have the <u>potential</u> to improve water quality	? (see p. 59)	
L	L 1.1 Average width of vegetation along the lakeshore:		
_	Vegetation is more than 33ft (10m) wide	points $= 6$	
	Vegetation is more than 16 (5m) wide and <33ft	points $= 3$	
	Vegetation is more than 6ft (2m) wide and <16 ft	points = 1	
	Vegetation is less than 6 ft wide	points $= 0$	
\mathbf{L}	L 1.2 Characteristics of the vegetation in the wetland: <i>choose the application that applied in the high set applied</i> .		
	description that results in the highest points, \and do not include		
	your estimate of coverage. In this case the herbaceous plants can dominant form (called emergent class) or as an understory in a s		
	community.	nrub or joresi	
	Herbaceous plants cover >90% of the vegetated area	points = 6	
	Herbaceous plants cover >2/3 of the vegetated area	points = 4	
	Herbaceous plants cover >1/3 of the vegetated area	points $= 3$	
	Other vegetation that is not aquatic bed in $> 2/3$ vegetated area	points $= 3$	
	Other vegetation that is not aquatic bed in $> 1/3$ vegetated area	points = 1	
	Aquatic bed cover $> 2/3$ of the vegetated area	points $= 0$	
L	Add the points in to	he boxes above	
L	L 2. Does the wetland have the opportunity to improve water qua	lity? (see p. 61)	
	Answer YES if you know or believe there are pollutants in the lal		
	surface water flowing through the wetland to the lake is polluted.	Note which of	
	the following conditions provide the sources of pollutants.		
	 Wetland is along the shores of a lake or reservoir that does quality standards 	not meet water	
	 Grazing in the wetland or within 150ft 		
	 Polluted water discharges to wetland along upland edge 		
	— Tilled fields or orchards within 150 feet of wetland		
	— Residential or urban areas are within 150 ft of wetland		multiplier
	— Parks with grassy areas that are maintained, ballfields, gol:	f courses (all	
	within 150 ft. of lake shore)	(
	— Power boats with gasoline or diesel engines use the lake		
	— Other		
	YES multiplier is 2 NO multiplier is 1		
L	TOTAL - Water Quality Functions Multiply the score	from L1 by L2	
		to table on p. 1	

L	Lake-fringe Wetlands	Points
	HYDROLOGIC FUNCTIONS - Indicators that wetland functions to reduce shoreline erosion	
L	L 3. Does the wetland have the <u>potential</u> to reduce shoreline erosion? (see p. 62)	
L	L 3 Average width and characteristics of vegetation along the lakeshore (do not include aquatic bed): (choose the highest scoring description that matches conditions in the wetland) > ¾ of fringe vegetation is shrubs or trees at least 33 ft (10m) wide points = 6 > ¾ of fringe vegetation is shrubs or trees at least 6 ft. (2 m) wide points = 4 > ¼ of fringe vegetation is shrubs or trees at least 33 ft (10m) wide points = 4	
	Fringe vegetation is at least 6 ft $(2m)$ wide points = 2 Fringe vegetation is less than 6 ft $(2m)$ wide points = 0	
L	Record the points from the box above	
L	 L 4. Does the wetland have the opportunity to reduce erosion? (see p. 63) Are there features along the shore that will be impacted if the shoreline erodes? Note which of the following conditions apply. — There are human structures and activities along the upland edge of the wetland (buildings, fields) that can be damaged by erosion. — There are undisturbed natural resources along the upland edge of the wetland (e.g. mature forests other wetlands) than can be damaged by shoreline erosion 	multiplier
	— Other	
	YES multiplier is 2 NO multiplier is 1	
L	TOTAL - Hydrologic Functions Multiply the score from L 3 by L 4 <i>Add score to table on p. 1</i>	

S	Slope Wetlands	Points	
	WATER QUALITY FUNCTIONS - Indicators that wetland functions to		
	improve water quality		
S	S 1. Does the wetland have the <u>potential</u> to improve water quality? (see p. 64)		
S	S 1.1 Characteristics of average slope of wetland:		
	Slope is 1% or less (a 1% slope has a 1 foot vertical drop in elevation for every		
	100 ft horizontal distance) points = 3		
	Slope is $1\% - 2\%$ points = 2		
	Slope is 2% - 5% points = 1		
	Slope is greater than 5% points = 0		
S	S 1.2 The soil 2 inches below the surface is clay, organic, or smells anoxic		
	(hydrogen sulfide or rotten eggs).		
	YES = 3 points NO = 0 points		
S	S 1.3 Characteristics of the vegetation in the wetland that trap sediments and		
	pollutants:		
	Choose the points appropriate for the description that best fits the vegetation in		
	the wetland. Dense vegetation means you have trouble seeing the soil surface.		
	Dense, ungrazed, herbaceous vegetation $> 90\%$ of the wetland area points $= 6$ Dense, ungrazed, herbaceous vegetation $> 1/2$ of area points $= 3$		
	Dense, ungrazed, herbaceous vegetation $> 1/2$ of area points $= 3$ Dense, woody, vegetation $> \frac{1}{2}$ of area points $= 2$		
	Dense, ungrazed, herbaceous vegetation $> 1/4$ of area points $= 2$		
	Does not meet any of the criteria above for vegetation $\frac{1}{4}$ of area $\frac{1}{4}$ points = 1		
S	Total for S 1 Add the points in the boxes above		
S	S 2. Does the wetland have the <u>opportunity</u> to improve water quality? (see p. 67)		
3	Answer YES if you know or believe there are pollutants in groundwater or surface		
	water coming into the wetland that would otherwise reduce water quality in		
	streams, lakes or groundwater downgradient from the wetland? Note which of the		
	following conditions provide the sources of pollutants.		
	— Grazing in the wetland or within 150ft		
	 Untreated stormwater discharges to wetland 		
	 Tilled fields, logging, or orchards within 150 feet of wetland 		
	— Residential, urban areas, or golf courses are within 150 ft upslope of	multiplier	
	wetland		
	— Other		
	YES multiplier is 2 NO multiplier is 1		
S	TOTAL - Water Quality Functions Multiply the score from S1 by S2		
)	Add score to table on p. 1		

S	Slope Wetlands	Points
	HYDROLOGIC FUNCTIONS - Indicators that wetland functions to reduce flooding and stream erosion	
	S 3. Does the wetland have the <u>potential</u> to reduce flooding and stream erosion? (see p. 68)	
S	S 3.1 Characteristics of vegetation that reduce the velocity of surface flows during storms. Choose the points appropriate for the description that best fit conditions in the wetland. Dense, uncut, rigid vegetation covers > 90% of the area of the wetland. (stems of plants should be thick enough (usually > 1/8in), or dense enough, to	
	remain erect during surface flows) Dense, uncut, rigid vegetation > 1/2 area of wetland Dense, uncut, rigid vegetation > 1/4 area More than 1/4 of area is grazed, mowed, tilled or vegetation is	
S	not rigid points = 0 S 3.2 Characteristics of slope wetland that holds back small amounts of flood flows: The slope wetland has small surface depressions that can retain water over at least 10% of its area. YES points = 2	
s	NO points = 0 Add the points in the boxes above	
S	S 4. Does the wetland have the opportunity to reduce flooding and erosion? (see p. 70) Is the wetland in a landscape position where the reduction in water velocity it provides helps protect downstream property and aquatic resources from flooding or excessive and/or erosive flows? Note which of the following conditions apply. — Wetland has surface runoff that drains to a river or stream that has flooding problems — Other (Answer NO if the major source of water is controlled by a reservoir (e.g. wetland is a seep that is on the downstream side of a dam) YES multiplier is 2 NO multiplier is 1	
S	TOTAL - Hydrologic Functions Multiply the score from S 3 by S 4 Add score to table on p. 1	

These questions apply to wetlands of all HGM classes.		Points	
HABITAT FUNCTIONS - Indicators that wetland	functions to provide im	portant habitat	
H 1. Does the wetland have the <u>potential</u> to provide	habitat for many spec	cies?	
H 1.1 Vegetation structure (see p. 72) Check the types of vegetation classes present (as def covers more than 10% of the area of the wetland aAquatic bedEmergent plantsScrub/shrub (areas where shrubs have >30Forested (areas where trees have >30% coForested areas have 3 out of 5 strata (cano moss/ground-cover) Add the number of vegetation types that qualify. If y	or ¹ / ₄ acre. 0% cover) over) opy, sub-canopy, shrubs		
	3 types 2 types 1 type	points = 2 points = 1 points = 0	
Seasonally flooded or inundated Occasionally flooded or inundated Saturated only Permanently flowing stream or river in, or Seasonally flowing stream in, or adjacent to Lake-fringe wetland = 2 points Freshwater tidal wetland = 2 points	or more types present 3 types present 2 types present adjacent to, the wetland	points = 3 points = 2 point = 1	
H 1.3. Richness of Plant Species (see p. 75) Count the number of plant species in the wetland patches of the same species can be combined to a You do not have to name the species. Do not include Eurasian Milfoil, reed canary Thistle If you counted: List species below if you want to:	meet the size threshold,		

H 1.4. <u>Interspersion of habitats</u> (see p. 76) Decide from the diagrams below whether interspersion between types of vegetation (described in H 1.1), or vegetation types and unvegetated areas (can include open water or mudflats) is high, medium, low, or none.	
None = 0 points Low = 1 point Moderate = 2 points	
High = 3 points NOTE: If you have four or more vegetation types or three vegetation types and open water the rating is always "high".	
H 1.5. Special Habitat Features: (see p. 77)	
Check the habitat features that are present in the wetland. The number of checks is the number of points you put into the next column. Large, downed, woody debris within the wetland (>4in. diameter and 6 ft long).	
Standing snags (diameter at the bottom > 4 inches) in the wetland	
 Undercut banks are present for at least 6.6 ft (2m) and/or overhanging vegetation extends at least 3.3 ft (1m) over a stream for at least 33 ft (10m) Stable steep banks of fine material that might be used by beaver or muskrat for denning (>30degree slope) OR signs of recent beaver activity are present At least ¼ acre of thin-stemmed persistent vegetation or woody branches are present in areas that are permanently or seasonally inundated.(structures for egg-laying by amphibians) Invasive plants cover less than 25% of the wetland area in each stratum of plants 	
H 1. TOTAL Score - potential for providing habitat	
Add the scores in the column above	

H 2. Does the wetland have the opportunity to provide habitat for many species?

H 2.1 <u>Buffers</u> (see p. 80)

Choose the description that best represents condition of buffer of wetland. The highest scoring criterion that applies to the wetland is to be used in the rating. See text for definition of "undisturbed."

- 100 m (330ft) of relatively undisturbed vegetated areas, rocky areas, or open water >95% of circumference. No developed areas within undisturbed part of buffer. (relatively undisturbed also means no-grazing)

 Points = 5
- 100 m (330 ft) of relatively undisturbed vegetated areas, rocky areas, or open water > 50% circumference. **Points = 4**
- 50 m (170ft) of relatively undisturbed vegetated areas, rocky areas, or open water >95% circumference. **Points = 4**
- 100 m (330ft) of relatively undisturbed vegetated areas, rocky areas, or open water > 25% circumference, . **Points = 3**
- 50 m (170ft) of relatively undisturbed vegetated areas, rocky areas, or open water for > 50% circumference. **Points = 3**

If buffer does not meet any of the criteria above

- No paved areas (except paved trails) or buildings within 25 m (80ft) of wetland > 95% circumference. Light to moderate grazing, or lawns are OK.

 Points = 2
- No paved areas or buildings within 50m of wetland for >50% circumference.
 Light to moderate grazing, or lawns are OK.

 Points = 2
- Heavy grazing in buffer.

- Points = 1
- Vegetated buffers are <2m wide (6.6ft) for more than 95% of the circumference (e.g. tilled fields, paving, basalt bedrock extend to edge of wetland **Points** = **0**.
- Buffer does not meet any of the criteria above.

Points = 1

H 2.2 Corridors and Connections (see p. 81)

H 2.2.1 Is the wetland part of a relatively undisturbed and unbroken vegetated corridor (either riparian or upland) that is at least 150 ft wide, has at least 30% cover of shrubs, forest or native undisturbed prairie, that connects to estuaries, other wetlands or undisturbed uplands that are at least 250 acres in size? (dams in riparian corridors, heavily used gravel roads, paved roads, are considered breaks in the corridor).

YES = 4 points
$$(go \ to \ H \ 2.3)$$
 NO = go to H 2.2.2

H 2.2.2 Is the wetland part of a relatively undisturbed and unbroken vegetated corridor (either riparian or upland) that is at least 50ft wide, has at least 30% cover of shrubs or forest, and connects to estuaries, other wetlands or undisturbed uplands that are at least 25 acres in size? **OR** a **Lake-fringe** wetland, if it does not have an undisturbed corridor as in the question above?

YES = **2 points** (go to
$$H 2.3$$
) NO = $H 2.2.3$

H 2.2.3 Is the wetland:

within 5 mi (8km) of a brackish or salt water estuary OR within 3 mi of a large field or pasture (>40 acres) OR within 1 mi of a lake greater than 20 acres?

$$YES = 1$$
 point

NO = 0 points

H 2.3 Near or adjacent to other priority habitats listed by WDFW (see p. 82)	
Which of the following priority habitats are within 330ft (100m) of the wetland?	
(see text for a more detailed description of these priority habitats)	
Riparian : The area adjacent to aquatic systems with flowing water that contains	
elements of both aquatic and terrestrial ecosystems which mutually influence each other.	
Aspen Stands: Pure or mixed stands of aspen greater than 0.8 ha (2 acres).	
Cliffs: Greater than 7.6 m (25 ft) high and occurring below 5000 ft.	
Old-growth forests: (Old-growth west of Cascade crest) Stands of at least 2 tree	
species, forming a multi-layered canopy with occasional small openings; with at	
least 20 trees/ha (8 trees/acre) > 81 cm (32 in) dbh or > 200 years of age.	
Mature forests: Stands with average diameters exceeding 53 cm (21 in) dbh; crown	
cover may be less that 100%; crown cover may be less that 100%; decay,	
decadence, numbers of snags, and quantity of large downed material is generally	
less than that found in old-growth; 80 - 200 years old west of the Cascade crest.	
Prairies: Relatively undisturbed areas (as indicated by dominance of native plants)	
where grasses and/or forbs form the natural climax plant community.	
Talus: Homogenous areas of rock rubble ranging in average size 0.15 - 2.0 m (0.5 -	
6.5 ft), composed of basalt, andesite, and/or sedimentary rock, including riprap	
slides and mine tailings. May be associated with cliffs.	
Caves: A naturally occurring cavity, recess, void, or system of interconnected	
passages	
Oregon white Oak: Woodlands Stands of pure oak or oak/conifer associations	
where canopy coverage of the oak component of the stand is 25%.	
Urban Natural Open Space: A priority species resides within or is adjacent to the	
open space and uses it for breeding and/or regular feeding; and/or the open space	
functions as a corridor connecting other <i>priority habitats</i> , especially those that	
would otherwise be isolated; and/or the open space is an isolated remnant of natural	
habitat larger than 4 ha (10 acres) and is surrounded by urban development.	
Estuary/Estuary-like: Deepwater tidal habitats and adjacent tidal wetlands, usually	
semi-enclosed by land but with open, partly obstructed or sporadic access to the	
open ocean, and in which ocean water is at least occasionally diluted by freshwater	
runoff from the land. The salinity may be periodically increased above that of the	
open ocean by evaporation. Along some low-energy coastlines there is appreciable	
dilution of sea water. Estuarine habitat extends upstream and landward to where	
ocean-derived salts measure less than 0.5ppt. during the period of average annual	
low flow. Includes both estuaries and lagoons.	
Marine/Estuarine Shorelines: Shorelines include the intertidal and subtidal zones	
of beaches, and may also include the backshore and adjacent components of the	
terrestrial landscape (e.g., cliffs, snags, mature trees, dunes, meadows) that are	
important to shoreline associated fish and wildlife and that contribute to shoreline	
function (e.g., sand/rock/log recruitment, nutrient contribution, erosion control).	
If wetland has 3 or more priority habitats = 4 points	
If wetland has 2 priority habitats = 3 points	
If wetland has 1 priority habitat = 1 point No habitats = 0 points	
1 wedana nas 1 protity naorat – 1 point	

H 2.4 Wetland Landscape (choose the one description of the landscape	around the	
wetland that best fits) (see p. 84)		
There are at least 3 other wetlands within ½ mile, and the connection	ns between them	
are relatively undisturbed (light grazing between wetlands OK, as	is lake shore with	
some boating, but connections should NOT be bisected by paved	roads, fill, fields,	
or other development.	points = 5	
The wetland is Lake-fringe on a lake with little disturbance and then	re are 3 other lake-	
fringe wetlands within ½ mile	points $= 5$	
There are at least 3 other wetlands within ½ mile, BUT the connection	ions between them	
are disturbed	points $= 3$	
The wetland is Lake-fringe on a lake with disturbance and there are	3 other lake-	
fringe wetland within ½ mile	points $= 3$	
There is at least 1 wetland within ½ mile.	points = 2	
There are no wetlands within ½ mile.	points = 0	
H 2. TOTAL Score - opportunity fo	or providing habitat	
Add the scores in	the column above	
Total Score for Habitat Functions – add the points for H 1, H 2 and r	record the result on	
	p. 1	

CATEGORIZATION BASED ON SPECIAL CHARACTERISTICS

Please determine if the wetland meets the attributes described below and circle the appropriate answers and Category.

Wetland Type	Category
Check off any criteria that apply to the wetland. Circle the appropriate Category	
when the appropriate criteria are met.	
SC 1.0 Estuarine wetlands (see p. 86)	
Does the wetland meet the following criteria for Estuarine wetlands?	
— The dominant water regime is tidal,	
— Vegetated, and	
— With a salinity greater than 0.5 ppt.	
YES = Go to SC 1.1 NO	
SC 1.1 Is the wetland within a National Wildlife Refuge, National Park, National Estuary Reserve, Natural Area Preserve, State Park or Educational, Environmental, or Scientific Reserve designated under WAC 332-30-151?	Cat. I
YES = Category I NO go to SC 1.2	
SC 1.2 Is the wetland at least 1 acre in size and meets at least two of the following three conditions? YES = Category I NO = Category II — The wetland is relatively undisturbed (has no diking, ditching, filling, cultivation, grazing, and has less than 10% cover of non-native plant species. If the non-native <i>Spartina</i> spp. are the only species that cover more than 10% of the wetland, then the wetland should be given a dual rating (I/II). The area of Spartina would be rated a Category II while the relatively undisturbed upper marsh with native species would be a Category I. Do not, however, exclude the area of Spartina in determining the size threshold of 1 acre. — At least ¾ of the landward edge of the wetland has a 100 ft buffer of shrub, forest, or un-grazed or un-mowed grassland.	
— The wetland has at least 2 of the following features: tidal channels, depressions with open water, or contiguous freshwater wetlands.	

SC 2.0 Natural Heritage Wetlands (see p. 87) Natural Heritage wetlands have been identified by the Washington Natural Heritage Program/DNR as either high quality undisturbed wetlands or wetlands that support state Threatened, Endangered, or Sensitive plant species. SC 2.1 Is the wetland being rated in a Section/Township/Range that contains a Natural Heritage wetland? (this question is used to screen out most sites before you need to contact WNHP/DNR) S/T/R information from Appendix D or accessed from WNHP/DNR web site	Cat. I
YES – contact WNHP/DNR (see p. 79) and go to SC 3.2 NO	
SC 2.2 Has DNR identified the wetland as a high quality undisturbed wetland or as or as a site with state threatened or endangered plant species? YES = Category I NO	
SC 3.0 Bogs (see p. 87) Does the wetland (or part of the wetland) meet both the criteria for soils and vegetation in bogs? Use the key below to identify if the wetland is a bog. If you answer yes you will still need to rate the wetland based on its functions.	
1. Does the wetland have organic soil horizons (i.e. layers of organic soil), either peats or mucks, that compose 16 inches or more of the first 32 inches of the soil profile? (See Appendix B for a field key to identify organic soils)? Yes - go to Q. 3 No - go to Q. 2	
2. Does the wetland have organic soils, either peats or mucks that are less than 16 inches deep over bedrock, or an impermeable hardpan such as clay or volcanic ash, or that are floating on a lake or pond?	
Yes - go to Q. 3 No - Is not a bog for purpose of rating	
3. Does the wetland have more than 70% cover of mosses at ground level, AND other plants, if present, consist of the "bog" species listed in Table 3 as a significant component of the vegetation (more than 30% of the total shrub and herbaceous cover consists of species in Table 3)?	
Yes – Is a bog for purpose of rating No - go to Q. 4 NOTE: If you are uncertain about the extent of mosses in the understory you may substitute that criterion by measuring the pH of the water that seeps into a hole dug at least 16" deep. If the pH is less than 5.0 and the "bog" plant species in Table 3 are present, the wetland is a bog.	
3. Is the wetland forested (> 30% cover) with sitka spruce, subalpine fir, western red cedar, western hemlock, lodgepole pine, quaking aspen, Englemann's spruce, or western white pine, WITH any of the species (or combination of species) on the bog species plant list in Table 3 as a significant component of the ground cover (> 30% coverage of the total shrub/herbaceous cover)?	
4. YES = Category I No Is not a bog for purpose of rating	Cat. I

 SC 4.0 Forested Wetlands (see p. 90) Does the wetland have at least 1 acre of forest that meet one of these criteria for the Department of Fish and Wildlife's forests as priority habitats? If you answer yes you will still need to rate the wetland based on its functions. — Old-growth forests: (west of Cascade crest) Stands of at least two tree species, forming a multi-layered canopy with occasional small openings; with at least 8 trees/acre (20 trees/hectare) that are at least 200 years of age OR have a diameter at breast height (dbh) of 32 inches (81 cm) or more. NOTE: The criterion for dbh is based on measurements for upland forests. Two-hundred year old trees in wetlands will often have a smaller dbh because their growth rates are often slower. The DFW criterion is and "OR" 	
so old-growth forests do not necessarily have to have trees of this diameter.	
— Mature forests: (west of the Cascade Crest) Stands where the largest trees are 80 – 200 years old OR have average diameters (dbh) exceeding 21 inches (53cm); crown cover may be less that 100%; decay, decadence, numbers of snags, and quantity of large downed material is generally less than that found in old-growth.	
YES = Category I NO	Cat. I
115 = Cutegory 1	
SC 5.0 Wetlands in Coastal Lagoons (see p. 91)	
 Does the wetland meet all of the following criteria of a wetland in a coastal lagoon? — The wetland lies in a depression adjacent to marine waters that is wholly or partially separated from marine waters by sandbanks, gravel banks, shingle, or, less frequently, rocks — The lagoon in which the wetland is located contains surface water that is saline or brackish (> 0.5 ppt) during most of the year in at least a portion of the lagoon (needs to be measured near the bottom) YES = Go to SC 5.1 NO not a wetland in a coastal lagoon 	
 SC 5.1 Does the wetland meets all of the following three conditions? — The wetland is relatively undisturbed (has no diking, ditching, filling, cultivation, grazing), and has less than 20% cover of invasive plant species (see list of invasive species on p. 74). — At least ¾ of the landward edge of the wetland has a 100 ft buffer of 	
shrub, forest, or un-grazed or un-mowed grassland.	Cat. I
— The wetland is larger than 1/10 acre (4350 square feet)	Cal. I
YES = Category I NO = Category II	Cat. II

SC 6.0 Interdunal Wetlands (see p. 93)	
Is the wetland west of the 1889 line (also called the Western Boundary of Upland	
Ownership or WBUO)?	
YES - go to SC 6.1 NO not an interdunal wetland for rating	
If you answer yes you will still need to rate the wetland based on its	
functions.	
In practical terms that means the following geographic areas:	
 Long Beach Peninsula- lands west of SR 103 	
Grayland-Westport- lands west of SR 105	
 Ocean Shores-Copalis- lands west of SR 115 and SR 109 	
SC 6.1 Is the wetland one acre or larger, or is it in a mosaic of wetlands that is	
once acre or larger?	
YES = Category II $NO - go to SC 6.2$	Cat. II
SC 6.2 Is the wetland between 0.1 and 1 acre, or is it in a mosaic of wetlands that	
is between 0.1 and 1 acre?	
YES = Category III	Cat. III
Category of wetland based on Special Characteristics	
Choose the "highest" rating if wetland falls into several categories, and record on	
p. 1.	
If you answered NO for all types enter "Not Applicable" on p.1	